CLAIM AMENDMENTS

The following is a complete list of claims. The claims below replace all prior versions of the claims in the application. Please amend claims 1 and 3.

1. (Currently Amended) A method of visualizing sound fields of individual sound sources using acoustic holography, comprising the steps of:

    a) calculating sound pressures on a sound source plane using sound pressures measured on a hologram plane;

    b) extracting a reference sound source locating at a position where a sound pressure has the largest value on the total sound field, and determining the sound pressure at the position as a signal coherent to the reference sound source;

    c) obtaining a sound field of the reference sound source using the signal coherent to the the reference sound source;

    d) eliminating the sound field of the reference sound source from the total sound field to get a remaining sound field, and determining whether any remaining sound field exists; and

    e) if any remaining sound field exists at step d), applying the step b) to the step d) to the remaining sound field.

2. (Original) The method of visualizing sound fields of individual sound sources according to claim 1, wherein the sound field of the reference sound source at step c) is obtained by calculating contribution of each of the sound sources in a spectral matrix consisting of auto-spectra at individual points on the sound source plane and cross spectra between different points by using the signal coherent to the reference sound source.

3. (Currently Amended) A computer-readable recording medium for recording a program, which executes the steps of:

    a) calculating sound pressures on a sound source plane using sound

2

pressures measured on a hologram plane;

b) extracting a reference sound source locating at a position where a sound pressure has the largest value on the total sound field, and determining the sound pressure at the position as a signal coherent to the reference sound source;

c) obtaining a sound field of the reference sound source using the signal coherent to the the-reference sound source;

d) eliminating the sound field of the reference sound source from the total sound field to get a remained sound field, and determining whether any remaining sound field exists; and

e) if any remaining sound field exists at step d), applying the step b) to the step d) to the remaining sound field.